

## EAST Search History

## EAST Search History (Prior Art)

Ref #	Hits	Search Query	DBs	Default Operator	Plurals	Time Stamp
L4	1	((cell with culture) or (cell with growing)) same increase with reproduction and selection with variant). clm.	US-PGPUB; USPAT	ADJ	ON	2011/02/12 20:15
L5	0	((cell with culture) or (cell with growing)) and (upstream or unspent or unused) with media and growth near3 chamber with (greater or bigger or larger) and (downstream or spent or used) with media). clm.	US-PGPUB; USPAT	ADJ	ON	2011/02/12 20:28
S1	1	"6066497".pn.	US-PGPUB; USPAT	ADJ	ON	2010/06/09 19:36
S2	20	("3540700"   "3724747"   "3732149"   "3740321"   "3827943"   "3847749"   "3875000"   "4373029"   "4650766"   "4717668"   "5037754"). PN. OR ("6066497"). URP.N.	US-PGPUB; USPAT; USOCR	ADJ	ON	2010/06/09 19:42
S3	17	eydes.in.	US-PGPUB; USPAT	ADJ	ON	2010/06/09 20:20
S4	39	eudes.in.	US-PGPUB; USPAT	ADJ	ON	2010/06/09 20:20
S5	50	( "20070037276" "85" "6863900" "74" "5928945" "77" "6287832" "77" "6372431" "77" "20080103428" "77" "5728576" "76" "5776721" "76" "5556765" "75" "6008010" "75" "6306403" "75" "6316257" "75" "6337070" "75" "6383739" "75"	US-PGPUB; USPAT	OR	ON	2010/06/10 12:54

		"6458814" "75"				
		"6475501" "75"				
		"6720178" "75"				
		"7198940" "75"				
		"7645610" "75"				
		"7655465" "75"				
		"20020146816" "75"				
		"20030133918" "75"				
		"20040013651" "75"				
		"20040018620" "75"				
		"20040033554" "75"				
		"20050032208" "75"				
		"20050272147" "75"				
		"20070020610" "75"				
		"20070160582" "75"				
		"20080293090" "75"				
		"20090298173" "75"				
		"20100086936" "75"				
		"5811094" "74"				
		"5837539" "74"				
		"6087113" "74"				
		"4296205" "74"				
		"5197985" "74"				
		"5512480" "74"				
		"5744361" "74"				
		"5766950" "74"				
		"5962323" "74"				
		"6255559" "74"				
		"6274791" "74"				
		"6365405" "74"				
		"6368854" "74"				
		"6372210" "74"				
		"6383805" "74"				
		"6403343" "74"				
		"6472212" "74"				
		"6541024" "74").pn.				
S6	0	435/298.2.ccls and ((cell with culture) or (cell with grow)) same (tube or tubing or pipe)	US-PGPUB; USPAT	OR	ON	2010/06/10 14:14
S7	29	435/298.2.ccls. and ((cell with culture) or (cell with grow)) same (tube or tubing or pipe)	US-PGPUB; USPAT	ADJ	ON	2010/06/10 14:15
S8	60	435/286.5.ccls. and ((cell with culture) or (cell with grow)) same (tube or tubing or pipe)	US-PGPUB; USPAT	ADJ	ON	2010/06/10 14:21
S9	55	435/303.1-303.3.ccls. and ((cell with culture) or (cell with grow)) same (tube or tubing or pipe)	US-PGPUB; USPAT	ADJ	ON	2010/06/10 14:34

S10	0	435/293.1.ccls. and ((cell with culture) or (cell with grow)) same (tube or tubing or pipe)	US-PGPUB; USPAT	ADJ	ON	2010/06/10 14:38
S11	48	435/304.1.ccls. and ((cell with culture) or (cell with grow)) same (tube or tubing or pipe)	US-PGPUB; USPAT	ADJ	ON	2010/06/10 14:39
S12	0	435/293.1.ccls. and ((cell with culture) or (cell with growing)) same (tube or tubing or pipe)	US-PGPUB; USPAT	ADJ	ON	2010/06/10 14:53
S13	95	435/304.1.ccls. and ((cell with culture) or (cell with grow)) and (tube or tubing or pipe)	US-PGPUB; USPAT	ADJ	ON	2010/06/10 14:55
S14	0	435/293.1.ccls. and ((cell with culture) or (cell with growing)) and (tube or tubing or pipe)	US-PGPUB; USPAT	ADJ	ON	2010/06/10 14:55
S15	0	435/293.1.ccls.	US-PGPUB; USPAT	ADJ	ON	2010/06/10 14:56
S16	236	435/293.1.ccls.	US-PGPUB; USPAT	ADJ	ON	2010/06/10 14:58
S17	106	435/293.1.ccls. and ((cell with culture) or (cell with growing)) and (tube or tubing or pipe)	US-PGPUB; USPAT	ADJ	ON	2010/06/10 14:58
S18	67	435/293.1.ccls. and ((cell with culture) or (cell with growing)) same (tube or tubing or pipe)	US-PGPUB; USPAT	ADJ	ON	2010/06/10 14:59
S19	197	435/289.1.ccls. and ((cell with culture) or (cell with growing)) same (tube or tubing or pipe)	US-PGPUB; USPAT	ADJ	ON	2010/06/10 15:04
S20	0	435/289.2.ccls. and ((cell with culture) or (cell with growing)) same (tube or tubing or pipe)	US-PGPUB; USPAT	ADJ	ON	2010/06/10 16:38
S21	27342	((cell with culture) or (cell with growing)) same (tube or tubing or pipe)	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	ADJ	ON	2010/06/10 16:39

S22	140	((cell with culture) or (cell with growing)) same (tube or tubing or pipe) same (clamp )	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	ADJ	ON	2010/06/10 16:39
S23	175	((cell same culture) or (cell with growing)) same (tube or tubing or pipe) same (clamp )	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	ADJ	ON	2010/06/10 16:54
S24	2	((cell same culture) or (cell with growing)) same (tube or tubing or pipe) same (clamp or cooks)	EPO; JPO	ADJ	ON	2010/06/10 16:59
S25	2	((cell with culture) or (cell with growing)) same (tube or tubing or pipe) same (clamp or cooks)	EPO; JPO	ADJ	ON	2010/06/10 17:00
S26	150	((cell with culture) or (cell with growing)) same (tube or tubing or pipe) same (clamp or cooks)	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	ADJ	ON	2010/06/10 17:00
S27	22	("3102082"   "3257072"   "3946780"   "4059486"   "4132594"   "4507114"   "4632244"   "4717668"). PN. OR ("5017490"). URPN.	US-PGPUB; USPAT; USOCR	ADJ	ON	2010/06/10 17:52
S28	19	("3102082").URPN.	USPAT	ADJ	ON	2010/06/10 17:56
S29	18	("2371208"   "2686754"   "2732663"   "3102082"   "3186917"   "3955317"   "4519984"   "4868123"). PN. OR ("5534417"). URPN.	US-PGPUB; USPAT; USOCR	ADJ	ON	2010/06/10 18:17
S30	0	(culture or grow)cell and continous with fiber	US-PGPUB; USPAT; USOCR	ADJ	ON	2010/06/14 09:18
S31	476	(culture or grow)cell same fiber	US-PGPUB; USPAT; USOCR	ADJ	ON	2010/06/14 09:19
S32	147	(culture or grow)cell with fiber	US-PGPUB; USPAT; USOCR	ADJ	ON	2010/06/14 09:19

S33	2	"3821087".pn.	US-PGPUB; USPAT; USOCR	ADJ	ON	2010/06/14 10:07
S34	42	bioreactor with pressure same regulator	US-PGPUB; USPAT; USOCR	ADJ	ON	2010/06/14 16:12
S35	1	"4686189".pn.	US-PGPUB; USPAT; USOCR	ADJ	ON	2010/06/15 09:24
S36	306	magnetic with stir\$ bar and bioreactor	US-PGPUB; USPAT; USOCR	ADJ	ON	2010/06/15 13:53
S37	0	magnetic with stir\$ bar and bioreactor and magnetic rotor	US-PGPUB; USPAT; USOCR	ADJ	ON	2010/06/15 13:54
S38	0	magnetic with stir\$ bar and bioreactor and magnetic rotor	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	ADJ	ON	2010/06/15 13:55
S39	4	magnetic with stir\$ bar and bioreactor and magnetic with rotor	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	ADJ	ON	2010/06/15 13:55
S40	44	magnetic with stir\$ bar same bioreactor	US-PGPUB; USPAT; USOCR	ADJ	ON	2010/06/15 13:56
S41	42	magnetic with stir\$ bar same bioreactor and (mixing or stirring or agitation)	US-PGPUB; USPAT; USOCR	ADJ	ON	2010/06/15 13:58
S42	10	(bioreactor or cell with culture) same micro \$cavity	US-PGPUB; USPAT; USOCR	ADJ	ON	2010/06/15 15:13
S43	0	(bioreactor or cell with culture) same micro \$gavity	US-PGPUB; USPAT; USOCR	ADJ	ON	2010/06/15 15:13
S44	0	(bioreactor or cell with culture) and micro \$gavity	US-PGPUB; USPAT; USOCR	ADJ	ON	2010/06/15 15:13
S45	760	(bioreactor or cell with culture) and (gravit\$ force)	US-PGPUB; USPAT; USOCR	ADJ	ON	2010/06/15 15:14
S46	103	( bioreactor or cell with culture) same gravit\$ force	US-PGPUB; USPAT; USOCR	ADJ	ON	2010/06/15 15:19
S47	119	( bioreactor or cell with (culture or grow\$)) same gravit\$ force	US-PGPUB; USPAT; USOCR	ADJ	ON	2010/06/15 15:22
S48	1050	( bioreactor or cell with (culture or grow\$)) and gravit\$ force	US-PGPUB; USPAT; USOCR	ADJ	ON	2010/06/15 15:49

S49	94	( bioreactor or cell with (culture or grow\$)) and (gravit\$ force) with (chamber or enviroment)	US-PGPUB; USPAT; USOCR	ADJ	ON	2010/06/15 15:49
S50	1315	( bioreactor or cell with (culture or grow\$)) same (emitter or raido wave or light waves or x \$rays or sound wave or radioactive field)	US-PGPUB; USPAT; USOCR	ADJ	ON	2010/06/15 16:02
S51	496	( bioreactor or cell with (culture or grow\$)) with (emitter or raido wave or light waves or x \$rays or sound wave or radioactive field)	US-PGPUB; USPAT; USOCR	ADJ	ON	2010/06/15 16:04
S52	317	( bioreactor or cell with (culture or grow\$)) with (emitter or raido wave or light waves or x \$rays or sound wave or radioactive field) and @ay <= "2004"	US-PGPUB; USPAT; USOCR	ADJ	ON	2010/06/15 16:04
S53	259	( bioreactor or cell with (culture or grow\$)) with (emitter or raido wave or light waves or x \$rays or sound wave or radioactive field) and @ay <= "2004" and @py < "2006"	US-PGPUB; USPAT; USOCR	ADJ	ON	2010/06/15 16:05
S54	3	( bioreactor ) with (emitter or raido wave or light waves or x \$rays or sound wave or radioactive field) and @ay <= "2004" and @py < "2006"	US-PGPUB; USPAT; USOCR	ADJ	ON	2010/06/15 16:16
S55	3	( bioreactor ) same ( raido wave or light waves or x \$rays or sound wave or radioactive field) and @ay <= "2004" and @py < "2006"	US-PGPUB; USPAT; USOCR	ADJ	ON	2010/06/15 16:18
S56	335	( cell with (growth or culture) ) same ( raido wave or light waves or x \$rays or sound wave or radioactive field) and @ay <= "2004" and @py < "2006"	US-PGPUB; USPAT; USOCR	ADJ	ON	2010/06/16 10:20

S57	232	( cell with (growth or culture) ) same ( raido wave or light waves or x \$rays or sound wave or radioactive field) and @ay <="2004" and @py <"2004"	US-PGPUB; USPAT; USOCR	ADJ	ON	2010/06/16 11:07
S58	221	( cell with (growth or culture) ) same ( raido wave or light waves or x \$rays or radioactive field) and @ay <="2004" and @py <"2004"	US-PGPUB; USPAT; USOCR	ADJ	ON	2010/06/16 11:09
S59	3	( cell with (growth or culture) ) same ( applying with gravit\$ with force)	US-PGPUB; USPAT; USOCR	ADJ	ON	2010/06/16 11:30
S60	65	( cell with (growth or culture) ) and ( applying with gravit\$ with force)	US-PGPUB; USPAT; USOCR	ADJ	ON	2010/06/16 11:44
S61	42	(eudes).in.	US-PGPUB; USPAT; USOCR	ADJ	ON	2010/06/16 15:04
S62	2	(tube with flexible)same cells and upstream and growth near2 chamber and translucent and transparent	US-PGPUB; USPAT	ADJ	ON	2010/10/14 21:35
S63	2	(tube with flexible)same cells and upstream and growth near2 chamber and translucent and transparent and stirring bar	US-PGPUB; USPAT	ADJ	ON	2010/10/14 21:38
S64	1	(tube with flexible)same cells and upstream and growth near2 chamber and translucent and transparent and emitter	US-PGPUB; USPAT	ADJ	ON	2010/10/14 21:39
S65	0	( "5928945" "99" "5181382" "77" "3887436" "98" "4366646" "98" "4868124" "98" "4999307" "98" "5017490" "98" "5288631" "98" "5350080" "98" "5362642" "98" "5556765" "98" "5614412" "98" "5698413" "98" "5928936" "98"	US-PGPUB; USPAT	ADJ	ON	2010/10/19 15:25

		"6046806" "98" "6458814" "98" "6720178" "98" "7270996" "98" "20020055166" "98" "20020146817" "98" "20050186671" "98" "20080032398" "98" "20080220501" "98" "20090111180" "98" "4043903" "81" "4473970" "81" "4630394" "81" "4897359" "81" "4968624" "81" "4973558" "81" "5008197" "81" "5362397" "81" "5426037" "81" "5441873" "81" "5455176" "81" "5478464" "81" "5501960" "81" "5736398" "81" "5756457" "81" "5780294" "81" "5817509" "81" "5863792" "81" "5882922" "81" "6001585" "81" "6066497" "81" "7198940" "81" "7247470" "81" "20020146816" "81" "20030168403" "81" "20050112549" "81"). pn.				
S66	50	( "5928945" "99" "5181382" "77" "3887436" "98" "4366646" "98" "4868124" "98" "4999307" "98" "5017490" "98" "5288631" "98" "5350080" "98" "5362642" "98" "5556765" "98" "5614412" "98" "5698413" "98" "5928936" "98" "6046806" "98" "6458814" "98" "6720178" "98" "7270996" "98" "20020055166" "98"	US-PGPUB; USPAT	OR	ON	2010/10/19 15:26



		"20020146817" "98" "20050186671" "98" "20080032398" "98" "20080220501" "98" "20090111180" "98" "4043903" "81" "4473970" "81" "4630394" "81" "4897359" "81" "4968624" "81" "4973558" "81" "5008197" "81" "5362397" "81" "5426037" "81" "5441873" "81" "5455176" "81" "5478464" "81" "5501960" "81" "5736398" "81" "5756457" "81" "5780294" "81" "5817509" "81" "5863792" "81" "5882922" "81" "6001585" "81" "6066497" "81" "7198940" "81" "7247470" "81" "20020146816" "81" "20030168403" "81" "20050112549" "81"). pn.				
S67	12	("5017490").URPN.	USPAT	ADJ	ON	2010/10/19 17:56
S68	132	cell (culture or growth) same (tilt or tilted or tilting )	US-PGPUB; USPAT	ADJ	ON	2010/10/20 18:06
S69	15	cell (culture or growth) with (container or bag) with agitation	US-PGPUB; USPAT	ADJ	ON	2010/10/20 18:14
S70	2206	cell (culture or growth) with (container or bag)	US-PGPUB; USPAT	ADJ	ON	2010/10/20 18:16
S71	738	cell (culture or growth) with ( bag)	US-PGPUB; USPAT	ADJ	ON	2010/10/20 18:16
S72	577	cell (culture ) with ( bag)	US-PGPUB; USPAT	ADJ	ON	2010/10/20 18:17
S73	1	"5071760".pn.	US-PGPUB; USPAT	ADJ	ON	2010/10/20 18:18

S74	9	("20030167038"   "5609574"   "5638812"   "5683640"   "5857998"   "6183450"   "6547760"   "6955661"   "6958059"). PN.	US-PGPUB; USPAT	ADJ	ON	2010/10/20 19:05
S75	2	("5525305"   "6066497"). PN.	US-PGPUB; USPAT	ADJ	ON	2010/10/20 19:07
S76	2	cell with cultur\$ same natural selection and rate with reproduction	US-PGPUB; USPAT	ADJ	ON	2010/10/20 19:08
S77	35	cell with cultur\$ same natural selection	US-PGPUB; USPAT	ADJ	ON	2010/10/20 19:08
S78	42	cell with cultur\$ same natural selection	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	ADJ	ON	2010/10/20 19:08
S79	0	cell with culture same transparent same turbidimeter	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	ADJ	ON	2010/10/20 22:52
S80	0	cell with culture same transparent and turbidimeter	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	ADJ	ON	2010/10/20 22:52
S81	19	cell with culture and transparent and turbidimeter	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	ADJ	ON	2010/10/20 22:52
S82	5	cell with culture and transparent same turbidimeter	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	ADJ	ON	2010/10/20 22:52
S83	2	cell same cultur\$ and ((reproduction or reproductive ) with (rate or yield)) same ((natural near2 selection)or (storing strains))	US-PGPUB; USPAT	ADJ	ON	2010/10/21 17:41

S84	51	cell same cultur\$ same ((natural near2 selection) or (storing strains))	US-PGPUB; USPAT	ADJ	ON	2010/10/21 17:45
S85	34	cell same cultur\$ and ((reproduction or reproductive ) with (rate or yield)) and ((natural near2 selection)or (storing strains))	US-PGPUB; USPAT	ADJ	ON	2010/10/21 17:51
S86	37	cell same cultur\$ and ((reproduction or reproductive ) with (rate or yield)) and ((natural near2 selection)or (storing strains))	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	ADJ	ON	2010/10/21 17:51
S87	100	cell same (cultur\$ or growth) same (flexible or elastomeric) near (tube or pipe)	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	ADJ	ON	2010/10/21 17:55
S88	4	cell same (cultur\$ or growth) same (flexible or elastomeric) near (tube or pipe) and 435/293.1.ccls.	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	ADJ	ON	2010/10/21 17:59
S89	2	cell same (cultur\$ or growth) same (flexible or elastomeric) near (tube or pipe) and 435/303.1.ccls.	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	ADJ	ON	2010/10/21 18:01
S90	9	cell same (cultur\$ or growth) same (flexible or elastomeric) near (tube or pipe) and 435/286.5.ccls.	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	ADJ	ON	2010/10/21 18:01
S91	5	medium same (cultur\$ or growth) same (flexible or elastomeric) near (tube or pipe) and 435/286.5.ccls.	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	ADJ	ON	2010/10/21 18:02
S92	0	medium same (cultur\$ or growth) same (flexible or elastomeric) near (tube or pipe) and 435/293.1.ccls.	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	ADJ	ON	2010/10/21 18:02

S93	82	medium same (cultur\$ or growth) same (flexible or elastomeric) near (tube or pipe)	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	ADJ	ON	2010/10/21 18:03
S94	8	435/293.1.ccls. and ((cell with culture) or (cell with growing)) and control same (turbidity or culture with density)	US-PGPUB; USPAT	ADJ	ON	2011/02/12 16:02
S95	14	435/303.1.ccls. and ((cell with culture) or (cell with growing)) and control same (turbidity or culture with density)	US-PGPUB; USPAT	ADJ	ON	2011/02/12 16:13
S96	38	435/292.1-294.1.ccls. and ((cell with culture) or (cell with growing)) and control same (turbidity or culture with density)	US-PGPUB; USPAT	ADJ	ON	2011/02/12 16:34
S97	1	"6686194".pn.	US-PGPUB; USPAT	ADJ	ON	2011/02/12 16:57
S98	8	("2147271"   "5242593"   "5316905"   "6127141"   "6271027"). PN. OR ("6686194"). URPN.	US-PGPUB; USPAT; USOCR	ADJ	ON	2011/02/12 17:00
S99	17	((cell with culture) or (cell with growing)) and control same (turbidity or culture with density)). clm.	US-PGPUB; USPAT	ADJ	ON	2011/02/12 17:58
S100	11	((cell with culture) or (cell with growing)) and control same (turbidity or culture with density)). clm.	US-PGPUB	ADJ	ON	2011/02/12 18:44
S101	4	((cell with culture) or (cell with growing)) and control same (turbidity or culture density)).clm.	US-PGPUB	ADJ	ON	2011/02/12 18:45
S102	1492	((cell with culture) or (cell with growing)) and control same (turbidity or culture density))	US-PGPUB; USPAT	ADJ	ON	2011/02/12 18:47

S103	436	((cell with culture) or (cell with growing)) and (control or controller or control system) with (turbidity or culture density))	US-PGPUB; USPAT	ADJ	ON	2011/02/12 18:52
S104	42	((cell with culture) or (cell with growing)) and ( controller or control system) with (turbidity or culture density))	US-PGPUB; USPAT	ADJ	ON	2011/02/12 18:52

**2/ 12/ 2011 8:29:21 PM****C:\ Documents and Settings\ sdoe\ My Documents\ EAST\ Workspaces\ 10590348.wsp**